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British Research Association for the Woollen and  
Worsted Industries,

Bond Place Chambers, Leeds.

*Secretary*—Mr. Arnold Frobisher, B.Sc.

British Scientific Instrument Research Association,  
26, Russell Square, W.C.1.

*Secretary*—Mr. J. W. Williamson, B.Sc.

British Rubber and Tyre Manufacturers Research  
Association,

c/o Messrs. W. B. Peat & Co., 11, Ironmonger  
Lane, E.C.2.

The Linen Industry Research Association,  
3, Bedford Street, Belfast.

*Secretary*—Miss M. K. E. Allen.

Glass Research Association,

7, Seamore Place, W.1.

*Secretary*—Mr. E. Quine, B.Sc.

British Cocoa, Chocolate, Sugar Confectionery, and  
Jam Trades Research Association,

9, Queen Street Place, E.C.4.

*Secretary*—Mr. R. M. Leonard.

Schemes for the establishment of Research  
Associations in the following industries have  
reached an advanced state of development.

RESEARCH ASSOCIATIONS APPROVED BY THE DE-  
PARTMENT BUT NOT YET LICENSED BY THE

BOARD OF TRADE

British Music Industries Research Associa-  
tion.

British Refractory Materials Research Asso-  
ciation.

British Non-Ferrous Metals Research Asso-  
ciation.

Scottish Shale Oil Research Association.

PROPOSED RESEARCH ASSOCIATIONS WHOSE MEMO-  
RANDUM AND ARTICLES OF ASSOCIATION ARE

UNDER CONSIDERATION

British Launderers Research Association.

British Electrical and Allied Industries Re-  
search Association.

British Aircraft Research Association.

INDUSTRIES ORGANIZATIONS ENGAGED IN PREPARING  
MEMORANDUM AND ARTICLES OF ASSOCIATION

Silk Manufacturers.

Leather Trades.

Master Bakers and Confectioners.

In addition to the industries included above,  
certain others are engaged in the preliminary

consideration for forming Research Associa-  
tions.

#### NATURAL GAS CONFERENCE

SECRETARY LANE, of the Department of the  
Interior, announces that the following ap-  
pointments have been made for the committee  
of ten authorized by the resolution at the  
Natural Gas Conference, held under Secre-  
tary Lane's invitation at Washington, Jan-  
uary 15, 1920: Van H. Manning, director,  
Bureau of Mines, chairman; John B. Corrin,  
The Reserve Gas Company, Pittsburgh, Penn-  
sylvania; L. B. Denning, The Ohio Fuel  
Company, Pittsburgh, Pennsylvania; J. C.  
McDowell, Wichita Natural Gas Company,  
Pittsburgh, Pennsylvania; W. L. McCloy,  
The Philadelphia Company, Pittsburgh, Penn-  
sylvania; John S. Rilling, Public Service Com-  
mission of Pennsylvania, Harrisburg, Penn-  
sylvania; Miss Edna N. White, American  
Home Economics Association, Detroit, Mich-  
igan; Art L. Walker, Chairman, Corporation  
Committee, Oklahoma City Oklahoma; F. W.  
Wozencraft, Mayor, Dallas, Texas; Samuel S.  
Wyer, Consulting National Gas Engineer,  
Columbus, Ohio; and Dr. I. C. White, state  
geologist of West Virginia, Morgantown,  
West Virginia.

The functions of this committee will be to  
consider the wastes now going on in natural  
gas and the relations between the natural gas  
companies and the consuming public. The  
committee has been carefully selected from a  
number of nominations with a view to repre-  
senting equally the interests of the public  
and the natural gas companies. Dr. Manning  
writes:

The development and utilization of the most  
ideal fuel known to man—natural gas—has been  
accompanied by almost inconceivable wastes. Al-  
though these wastes have been greatly reduced dur-  
ing recent years, they have by no means been elim-  
inated and the country to-day is paying the penalty  
of its sins by the depletion and even exhaustion  
of many of the formerly prolific gas supplies.  
These wastes have occurred in the fields where the  
gas is produced; in the lines through which the  
gas is transported; and from the cooking stoves,  
furnaces, boiler plants, etc., where the gas is ulti-  
mately consumed.

Through the knowledge and experience which has been gained in the natural gas industry, it is now known how these wastes can be practically eliminated, but the main obstacles now to be overcome before these economies can be put into effect are economic rather than technical; that is modern engineering can control these wastes, but it is necessary that the saving be made worth while. There must be a thorough consideration of the broad, underlying economics of the gas business and its relations to the conservation and better utilization of natural gas. There is a necessity that the public more thoroughly understand the economics and technique of the gas business to the end that machinery be devised and put into operation whereby the interests of the public and the gas companies can be brought together in such a manner that the gas now being wasted can be saved and used.

It is the purpose of this committee to consider these broader questions of the relations between the consuming public and the gas companies, that a program may be drawn up looking forward to the application of those engineering principles which it is known minimize the waste of natural gas now taking place and prolong the supply of gas to the consumer.

#### THE STEINHART AQUARIUM

THE erection of an up-to-date aquarium in Golden Gate Park, San Francisco, is an event of some significance in the scientific world and the fact that it is to be under the direction and management of the California Academy of Sciences and supervised by Dr. Barton Warren Evermann, the ichthyologist, will insure it fulfilling its purpose of quickening interest in the fauna of the Pacific Ocean and the inland waters of the Pacific coast area.

Funds for the building of the aquarium amounting to \$250,000 have been provided through the munificence of the late Ignatz Steinhart who stipulated in his will that the management should vest in the California Academy of Sciences. By an amendment to the city charter the city of San Francisco has undertaken the maintenance of the aquarium. The aquarium will be built adjoining the Academy's Museum building and will be equipped with a full complement of glass exhibition tanks. Outdoor pools for the exhibition of aquatic mammals form an essential part of the building scheme.

Dr. Evermann is now in the East and will visit the aquariums of Boston, New York, Detroit, Philadelphia and Washington to study carefully the most approved methods of installation.

#### RESIGNATION OF DEAN BAKER OF THE NEW YORK STATE COLLEGE OF FORESTRY

An appeal for better salaries for educators, particularly those in New York State and in the New York State College of Forestry, at Syracuse marks the letter of resignation filed by Dean Hugh P. Baker, who has resigned after eight years of service, to accept twice the salary he is rated as receiving at the State College of Forestry, by becoming secretary of the American Paper and Pulp Association.

Although he receives a big increase in pay, his letter of retirement specifies that the inducement which caused him to leave the College of Forestry was not the salary, but the opportunity to carry the profession of forestry into a great industry, that of paper manufacturing. His letter discloses that last year he refused an offer of \$7,500 to enter a business career, but that the trustees increased his salary from \$5,000 to \$6,000 to remain, and he declined the offer. Owing to the rigidity of the New York state budget system, however, even this raise would not take effect until July, 1920, and only then if approved by the legislature. In his letter of resignation, he says this of the salaries of teachers: "The public is apathetic, to say the least, as to the needs of education, with the result that our public schools and colleges and universities throughout the country are suffering for the lack of the right kind of men and women in the teaching profession."

Dean Baker's last work at the College of Forestry will include an effort to secure adequate salaries for the educators in the college, some of whom are paid smaller than men in the same relative positions at other state educational institutions.

#### SCIENTIFIC NOTES AND NEWS

DR. DAVID F. HOUSTON, formerly president of Washington University, secretary of agriculture, has been nominated by President Wil-